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Boston University
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FIELDS OF RESEARCH Statistics, Biostatistics, Epidemiology (including Cohort Studies, Longitudinal Analysis, Clinical Trials, Goodness-of Fit, and Robustness Analysis)

PRESENT POSITIONS

At Boston University

Professor of Mathematics/Statistics, Biostatistics and Epidemiology
Director, Statistics and Consulting Unit (Framingham Study)
Executive Director, MA/PhD Biostatistics Program

Not at Boston University

Executive Director, Biostatistics and Data Management, Harvard Clinical Research Institute
Editor, *Statistics in Medicine*
Editorial Board, *Current Therapeutic Research*
Statistical Consultant, *New England Journal of Medicine*
Editor, *Encyclopedia of Clinical Trials*
Associate Editor, *Encyclopedia of Biostatistics*

PAST POSITIONS

At Boston University

Chair, Mathematics and Statistics Department (Boston University) 1986-1991, 2006-2012
Chair, Faculty Council

Not at Boston University

Associate Editor, *American Journal of Epidemiology*
Editorial Board, *Journal of Hypertension*
Editorial Board, *Health Services and Outcomes Research Methodology*

EDUCATION

Ph.D. Harvard University, 1968 (Mathematical Statistics)
A.M. Boston University, 1964 (Mathematics)
A.B. Boston University, 1962 (Mathematics), summa cum laude

FACULTY/RESEARCH APPOINTMENTS

Awarded Metcalf Cup and Prize for Excellence in Teaching at Boston University (May 19, 1985)

Current

1977- Professor of Mathematics/Statistics, Boston University Mathematics Department,
College of Arts and Sciences (formerly College of Liberal Arts)
1982- Professor of Public Health, Boston University School of Public Health, Department of
Epidemiology and Biostatistics

Ralph B. D'Agostino
1990-2003 Professor in Law School, Boston University Law School

RESUME February 10, 2013

Past

- | | |
|-----------|---|
| 2012 | Visting Lecture Ohio Medical School, Toledo, Ohio |
| 2006 | Reynolds Lecturer American Heart Association, Epidemiology Section |
| 1995 | Rankin Visiting Professor in Epidemiology and Preventive Medicine, University of Wisconsin |
| 1993 | Visiting Professor of Biostatistics, Clinical Epidemiology Unit, University Hospital, Geneva, Switzerland |
| 1993 | Visiting Scientist, Division of Epidemiology and Biometry, National Heart, Lung and Blood Institute, Bethesda, Maryland |
| 1971-1977 | Associate Professor of Mathematics, Boston University |
| 1968-1971 | Assistant Professor of Mathematics, Boston University |
| 1976-1990 | Lecturer in Law School, Boston University Law School |
| 1976 | Associate Professor, Harvard Summer School |
| 1964-1968 | Lecturer in Mathematics, Boston University |
| 1964 | Instructor, Harvard Extension Program |

ADMINISTRATION EXPERIENCE BOSTON UNIVERSITY

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|-----------|---|
| 2006-2011 | Chair, Mathematics and Statistics Department |
| 1998-2000 | Director, Statistics Unit (Center for Psychiatric Rehabilitation) |
| 1986- | Director, Statistics and Consulting Unit |
| 1988- | Co-Director MA/PhD Biostatistics Program |
| 1986-1991 | Chair, Mathematics Department |
| 1976-1978 | Associate Dean of the Graduate School |

RESEARCH AND CONSULTANT APPOINTMENTS (Selected)

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| 2005-2012 | Consultant, Vertex Pramaceuticals |
| 2005-2006 | Consultant, Pfizer Consumer Health Care |
| 2000-2010 | Consultant, Unilever |
| 1997-1999 | Consultant, Medicines Company, Cambridge, MA |
| 1995- | Senior Investigator, Forsyth Dental Clinic, Boston, MA |
| 1992-1999 | Consultant and Member Review Committee, Health Effects Institute, Cambridge, MA |
| 1989- | Special Research Scientist, New England Medical Center |
| 1987-1994 | Chesebrough Ponds, Inc. Connecticut |
| 1986-1995 | Multicenter Cardiology and Health Services Research Unit (Tufts University/New England Medical Center) |
| 1986-1988 | Consultant, Dane, Clinical Assays, Cambridge, Mass. |
| 1985-1990 | New England Research Institute, Watertown, Mass. |
| 1985-1995 | Consultant, Lever Brothers, Unilever |
| 1981- | Special Research Scientist, Boston City Hospital (Boston Medical Center) |
| 1984-1985 | Consultant, American Institutes for Research (AIR) |
| 1976- | Expert Consultant, Biometrics Division, Food and Drug Administration (FDA) |
| 1984 | Consultant, Behavioral Science Unit, Federal Bureau of Investigation (FBI) |
| 1983-1988 | Consultant, Millipore Corporation, Bedford, Mass. |
| 1984-1988 | Consultant, VLI Corporation, Irvine, California |
| 1979-1986 | Consultant, GCA Corporation, Bedford, Mass. |
| 1973-1979 | Consultant, Walden Research, Wilmington, Mass. |
| 1968-1976 | Consultant, United Brands Company, Boston, Mass. |

Fellow, American Statistical Association
Fellow, Cardiovascular Epidemiology Council of American Heart Association

2008	US Food and Drug Administration Advisory Committee Service Award
2006	Remington Lecturer for Cardiovascular Epidemiology Section of the American Heart Association meeting, March 2006
1997	Investing in Information Award at HealthMart '97, sponsored by the Massachusetts Health Data Consortium, Inc., Boston, MA, Sept 26
1996	Lowell Reed Lecturer at the American Public Health Association Meeting, November Meeting, 1996
1995	Rankin Visiting Professor in Epidemiology and Preventive Medicine, University of Wisconsin
1995	Commissioner's Special Citation (Federal Food and Drug Administration)
1993	Statistician of the Year, Boston Chapter American Statistical Association
1985	Metcalf Cup and Prize for Excellence in Teaching (Boston University)
1981	Commissioner's Special Citation (Federal Food and Drug Administration)
1980-	Who's Who in America
1980-	Who's Who in the World
1974-	Who's Who in the East
1974	Distinguished Alumni (Boston University College of Liberal Arts)
1965-1968	National Institutes of Health Predoctoral Fellow
1964	Sigma Xi
1962	Phi Beta Kappa

GRANT/CONTRACT ACTIVITY (Selected)

Major Grant/Contract Activities (Selected)

2007- 2015	"The Framingham Study: Physical Examination" Testing and Surveillance (NHLBI). Seven year contract for continuation of the Framingham Study (\$100,000,000). Dr. Philip Wolf is PI. RBD is Co-PI and Director of Data Management and Statistical Analysis.
2002- 2007	"The Framingham Study: Physical Examination" Testing and Surveillance (NHLBI). Seven year contract for continuation of the Framingham Study (\$42,000,000). Dr. Philip Wolf is PI. RBD is Co-PI and Director of Data Management and Statistical Analysis
2003-2011	"The IMMEDIATE STUDY" RBD was PI of Data Coordinating Center.
1986-2001	"The Framingham Study: Physical Examination, Testing and Surveillance (NHLBI-85-17). Fifteen year contract for continuation of the Framingham Heart Study (\$16,000,000. total funding). Dr. William B. Kannel was overall Principal Investigator until 1990. Dr. Philip A. Wolf is Principal Investigator since then. RBD was <i>Director of the Statistical Analysis Unit and Co-Principal Investigator</i> on full contract.
1983-2006	"Precursors of Stroke Incidence and Prognosis" (NINCDS-NS-17950). Six five year grants for investigating stroke cases in Framingham. Dr. Philip A. Wolf is Principal Investigator and RBD is <i>Co-Principal Investigator and/or Senior Statistician</i>.

- 1988-1994 "Decline in Cardiovascular Mortality: Framingham 1950-1984" (NHLBI R01 HL 40423). Six year grant for investigating secular trends in the Framingham Study (\$1,200,000 total funding estimated). **RBD was Principal Investigator.**
- 1982-1984 "Minicomputer and Data Analysis in Support of the Air Force Geophysics Laboratories Magnetometer Network." Two year incremental funded contract with Air Force (\$76,000 total funding). **RBD was Principal Investigator.**
- 1981-1983 "Statistical Studies." Two year contract with Air Force Electronics Systems Division (\$110,000 total funding). **RBD was Principal Investigator.**
- 1976-1982 "Myocardial Infarction Prediction in Emergency Rooms"(HEW 5 R01 HS 02068-2). Five year grant funded by National Center for Health Services Research. (\$1,500,000 total funding). Dr. Michael Pozen was Principal Investigator until June 1981. **RBD was Co-Principal Investigator to June 1981 and then PI to March 1982.**
- 1979-1983 "Impact of Emergency Medical System Development in Rural Areas." Four year grant funded by National Center for Health Services Research. (\$1,200,000 direct costs). Dr. Michael Pozen was Principal Investigator until June 1981. Dr. Joseph Stokes was Principal Investigator then. **RBD was Co-Principal Investigator.**
- 1981-1985 "Return to Work-Oriented Cardiac Rehabilitation." Three year grant funded by Robert Wood Johnson Foundation. (\$ [REDACTED] (b) (4) total funding). Dr. Anne Burgess was Principal Investigator. **RBD was Co-Principal Investigator.**
- 1977-1980 "Effectiveness of Advanced EMTs Versus Basic EMTs". (HEW 1 R01 HS02536-01). Three year grant funded by National Center for Health Services Research (\$252,000 direct costs). Dr. Michael Pozen was Principal Investigator. **RBD was Co-Principal Investigator.**
- 1977-1978 "Evaluation of Studies and Inventory of Data Bases on the Effect of Emergency Medical Systems on Pre-hospital Cardiovascular Care." (NHLBI-77-28). One year contract funded by National Heart, Lung and Blood Institute (\$72,000 direct costs). Janet Mitchell was PI. **RBD was Co-Principal Investigator.**
- 1998- 2003 "Research Infrastructure Support Program" (National Institutes of Mental Health) (\$1,490,840 direct costs). William B. Anthony is PI, **RBD was Director of Statistics Analysis Unit.**

Other Grant/Contract Activities

- 1999-2013 "Statistical Research in Epidemiology and Clinical Trials" Grant Awards to fund Graduate Students. MULTIPLE grants. **RBD is Principal Investigator**

(b) (4)

1995

1995

1990-1992 "Disability Analysis: Framingham Study (Social Security SSA-90-0530). Two year contract investigating determinants of disability and work behavior after disability (\$200,000 total funding). **RBD was Principal Investigator.**

1989-1992 "Framingham Offspring Eye Study" (National Eye Institute). Three year contract (\$756,782 direct costs). Dr. Philip Wolf was Principal Investigator. **RBD was Co-Principal Investigator.**

(b) (4)

1987-1989 "Evaluating Physicians' Cardiopulmonary Decisions"(NHLBI-IR18-HL-37762-01A1). Two year grant to investigate non-biomedical factors in the medical decisions. Dr. John B. McKinlay was Principal Investigator and **RBD was Co-Principal Investigator.**

1983-1985 "Return to Work-Oriented Cardiac Rehabilitation." Subcontract from Boston City Hospital (\$20,000 funding). **RBD was Principal Investigator.**

1985-1987 "Relation of Obesity and Cancer in the Framingham Study" (\$91,857. direct costs). Dr. B. Kreger was Principal Investigator. **RBD was Senior Statistician.**

1984-1986 "Framingham Study Monographs for 30 Years of Follow Up." Two year grant funded by NIH (\$83,179). Dr. William Kannel was Principal Investigator. **RBD was Co-Principal Investigator.**

1985-1986 "Work and Risk for Cardiovascular Disease". One year grant funded by NIOSH. (\$73,000 direct costs). Dr. William Kannel was Principal Investigator. **RBD was Co-Principal Investigator.**

1983-1986 "Disability Analysis of Health Data." Grant funded by Health and Human Services (\$180,082). Dr. Gerald Gordon was Principal Investigator. **RBD was Senior Statistician.**

1984-1985 "Extending the Disability Analysis to Age 65 and Over." Grant funded by Social Security Administration (\$281,404.) Dr. Gerald Gordon was Principal Investigator. **RBD was Senior Statistician.**

1982-1984 "Sexual Homicide and Crime Scene Data and Patterns of Behavior." Two year grant funded by National Institute of Justice. (\$127,505 total funding). Dr. Anne Burgess was Principal Investigator. **RBD was Co-Principal Investigator.**

1975-1976 "Statistical Review of Hypertension Literature-critique of the literature from statisticians' point of view." National Science Foundation grant Dr. Paul Gertman was Principal

CONSULTANT/EXPERT STATISTICIAN TO FOOD AND DRUG ADMINISTRATION (FDA)

Awarded FDA Commissioner's Special Citation (May 8, 1995)

Citation read: For time, effort and expertise provided to the FDA regarding the evaluation of key and crucial OTC (Over-the-Counter) drug issues

Awarded FDA Commissioner's Special Citation (May 22, 1981)

Citation read:

In recognition of outstanding service to the Bureau of Drugs in providing expert statistical evaluations of many complex issues as a Special Government Employee.

Awarded FDA Advisory Committee Service Award (May 2008)

Citation read:

In recognition of distinguished service to the people of the United States of America.

Current

Consultant to the Division of Biometrics
Consultant to the Over-the-Counter Drug Division
Consultant to Oncology Drug Division
Consultant to Device Division

Overview

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|-----------|---|
| 1998- | Consultant to Cardio-Renal Drugs Advisory Committee, Drug Safety Advisory Committee, OB/GYN Device Advisory Committee, Oncology Drugs Advisory Committee, Nonprescriptive Drugs Advisory Committee |
| 2006-2008 | Member, Nonprescriptive Drugs Advisory Committee |
| 1995-1998 | Member, <u>Nonprescriptive Drugs Advisory Committee</u> , Chairman, 1996-98. |
| 1994-1998 | Consultant, <u>Gastrointestinal Drugs Advisory Committee</u> |
| 1990-1994 | Member, <u>Gastrointestinal Drugs Advisory Committee</u> |
| 1988-1998 | Consultant, <u>Cardiovascular and Renal Drugs Division</u> |
| 1987-1989 | Member, <u>Drug Abuse Advisory Committee</u> |
| 1978-1982 | Member, <u>Fertility and Maternal Health Drug Advisory Committee</u> . Committee reviews and evaluates all available data concerning the safety and effectiveness of presently marketed and new prescription drug products proposed for marketing for use in fertility and maternal health and advises the Commissioner of Food and Drug regarding current advances, changing concepts, and trends in the field.

Some items reviewed in detail and on which RBD played a major role: (1) Safety of Bendectin-Relation to malformations in infants; (2) High Dose Estrogen Oral Contraceptives; (3) Walnut Creek Study - Relation of Oral Contraceptives to Health. |

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1975-1981

Consultant, Panel reviewing Over-the-Counter (i.e., non-prescriptive) Miscellaneous Internal Drug Products.

Some functions were: (1) To evaluate and write critiques of the submissions by drug companies to FDA of studies dealing with safety and effectiveness of their over-the-counter drugs; (2) To aid in writing protocols (i.e., procedures for performing studies) or guidelines for protocols to evaluate effectiveness of various over-the-counter drugs (e.g., smoking deterrents, internal deodorants for ostomates, postprandial distress drugs, intestinal distress drugs, weight reducing aids, drugs for relief of symptoms resulting from overindulgence in food and drink, drugs for relief of premenstrual pain and tension); (3) To aid in writing monographs published in Federal Register on the status of over-the-counter drugs. Some monographs written were on: Digestive Aids, Weight Control Drugs, Pancreatic Insufficiency drugs, Antidotes for treatment of Acute Toxic Ingestion, Smoking Deterrents, Deodorants for Internal Use, stomach Acidifier Drugs, Emetic Drugs, Fever Blister, Drugs for Relief of Overindulgence in Food and Drink, Premenstrual Drugs.

1976-

Expert Consultant in Statistics to Statistical Evaluation and Research Branch, Center for Drugs and Biologics. Perform "duties equivalent to and at a level of proficiency equal to that of senior statistician assigned to the divisions." Perform statistical review of New Drug Applications and related statistical projects.

Some of the projects were: (1) Reviewed studies evaluating effectiveness and safety of antidepressant drugs (amitriptyline, amoxapine); (2) Reviewed studies evaluating effectiveness and safety of benylin expectorant in multi-clinic studies; (3) Reviewed studies evaluating effectiveness of Isoprinosine for treatment of Subacute Sclerosing Panencephalitis; (4) Reviewed studies evaluating effectiveness of Carasone for treatment of ocular inflammation when concurrent use of an antimicrobial is judged necessary; (5) Reviewed studies evaluating effectiveness of NUBAIN (nalbuphine hydrochloride) for relief of moderate to sever pain; (6) Reviewed studies evaluating safety of BSS Plus (a stabilized glutathione, bicarbonate Ringer's solution) for use as an ocular irrigating solution in ophthalmic procedures; (7) Reviewed studies evaluating Guanfacine (an antihypertensive drug); (8) Reviewed studies evaluating Feldene (piroxicam) for pain and dysmenorrhea; (9) Reviewed studies evaluating Isordil (a drug for congestive heart failure treatment); (10) Reviewed studies evaluating Indoramin (an antihypertensive drug); (11) Review studies evaluating Nitrendipine (an antihypertensive drug); (12) Review of open label extension of Helsinki Heart Study; (13) Review of use of steroids for treatment of Turner's Syndrome.

1976-1981

Consultant to Panels reviewing Over-the-Counter Drug Products-Contraceptive Products Panel, Hemorrhoidal Products Panel, Oral Cavity Drug Products. Reviewed studies evaluating safety and effectiveness of over-the-counter drugs such as Scope, Listerine and Preparation-H.

1976-

Consultant to Over-the-Counter Drug Division. Review submission of studies evaluating over-the-counter drugs (e.g., sun screen preparations, (1985-1989) and cocoa butter substitutes for anorectal products (1985-1989) and antihistamines in preparations for treatment of common colds (1992-)).

1979-1981

Member of Subcommittee of Anesthetic and Life Support Drug Advisory Committee reviewing "Obstetrical Medication and Development in the First Year of Life." Reviewed studies and wrote analysis plan for new analyses.

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CONSULTANT/EXPERT STATISTICIAN TO NATIONAL INSTITUTES OF MENTAL HEALTH

1985-1986 Member of a Panel investigating fraud in research. Research involved use of drugs on psychiatric patients.

CONSULTANT/EXPERT STATISTICIAN FOR LEGAL CASES (Selected)

1988 Unilever. Evaluated studies on anti-tartar agents.

1986 Patterson, Belknap, Webb and Tyler (Law Firm). [REDACTED] (b) (4)

1981 Penn Central Railroad. Evaluating Penn Central's percent of payment in claims for spoilage in produce.

1980 Arnold and Porter (Law Firm). [REDACTED] (b) (4)

1972 City of Somerville. Worked on estimating ratio of assessment to fair cash value for years 1969 to 1971.

CONSULTING (STATISTICAL) MAJOR ACTIVITIES

1994-2010 **Consultant to Genzyme, Pfizer, Johnson & Johnson, GSK, Bayer, Sanofi**

1994 Sandoz Pharmaceuticals. Reviewed protocol for drugs for the common cold.

1994-1995 Proctor and Gamble. Reviewed analysis for Etidronate Disodium for vertebral fractures.

1994-1995 SmithKline Beecham Pharmaceuticals. Reviewed analysis for Tagamet, controlled release.

1988-1990 Merck, Sharpe and Dohme. Data analysis on Lovastatin; a cholesterol lowering drug, clinical trials.

1987-1995 Chesebrough Ponds, Connecticut. Aided in design and analysis of clinical trials to evaluate over-the-counter drugs; anti-tartar agents. Aided in analysis of intra-oral analysis for use of baking soda in Mentadent toothpaste.

1985-1987 Lever Brothers, New Jersey. Aided in design and analysis of clinical trials to evaluate over-the-counter drugs; toothpaste with high levels of fluoride and anti-tartar agents.

1984 Federal Bureau of Investigation (FBI). Worked with Behavioral Science Unit on Psychological Profiles of Mass Murderers and Serial Murderers.

1979-1986 GCA, Bedford, Mass. Work at GCA dealt with environmental problems. Some projects included:(1) Analysis plan for sampling and monitoring air, water, soil/sediments, biological samples at Love Canal Area, Michigan; (2) Designing test plans for evaluation of PCB destruction efficiency in industrial boilers ([REDACTED] (b) (4)); (3) Designing test plan to measure asbestos fiber air sample analysis; (4) Designing analysis plan to estimate efficiency of scrubber systems for removal of Sulfur dioxide.

1973-1979 Walden Research (research division of ABCOR), Wilmington, Mass. Walden

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- Research was a research and development company involved in air quality, water quality, and other environmental areas. Worked on a number of projects, some of which included: (1) Study of growth effects of major land use projects (industrial parks, new residential development and new sewage lines). Studies involved path analysis and development of predictive models (Two contracts from Environmental Protection Agency), 1976-1978; (2) Development and evaluation of a diagnostic system for the early detection of dental caries (National Institute of Dental Research contract to Tufts University, Biomedical Division of ABCOR as subcontractor), 1977-1979; (3) Evaluation of climatological representativeness of 1964 meteorological data base - 1964 is often used as a representative year (Environmental Protection Agency contract), 1976-1978; (4) Evaluation of Walden's passive dosimeter for measuring SO₂ compared to other techniques, 1976-1979; (5) Study of area source hydrocarbon emissions in Chicago, Illinois. Aid in designing and analyzing questionnaire sample survey and on site follow-up to develop an area source evaporative hydrocarbon emissions inventory suitable for use in evaluating potential control strategies to ensure the attainment and maintenance of the National Ambient Air Quality Standards (NAAQS) for photochemical oxidants (Illinois Environmental Protection Agency contract), 1978-1979; (6) Statistical analysis of the source receptor relationship for exidant and haze in the Houston Area (Houston Texas Area Oxidents Study group contract). 1978-1979; (7) Statistical evaluation of air quality impact of energy shortage for Boston area (Environmental Protection Agency contract), 1974; (8) Statistical design and analysis to study and evaluate the effect of performing various energy saving procedures on residential oil burner installations in the New England area (U.S. Department of Commerce contract), 1974-1975; (9) Statistical design and analysis of an extensive laboratory study of turbidity generating potential of sediments to be dredged. (U.S. Army Corps of Engineers contract); (10) Statistical design of a test plan to evaluate portable direct-reading H2S meters. (National Institute for Occupational Safety and Health); (11) Analysis of data on reappearance of normal sperm in guinea pigs who underwent surgical or stent reanastomosis after various time periods after a vasectomy. (Biomedical Division of ABCOR); (12) Design of quality control procedures for evaluation of membranes and other components in filtration systems; (13) Statistical designing of a test plan to evaluate ultra-filtration of bilge waste (Navy contract); (14) Statistical designing of a test plan to evaluate membrane separation processes, carbon absorption and oxonation for treatment of Must hospital waste (Contract from U.S. Army Medical Research and Development Command).
- 1968-1976 United Brands Company (formerly United Fruit Company), Management Sciences Division, Boston, Mass. Worked on a number of projects, some of which included: (1) Development of both long and short term Price/Quality relationships; (2) Analysis of economic time series; (3) Modeling of forecasting systems for harvesting time of agricultural products and estimation of parameters of such systems; (4) Design and analysis of consumer taste preference experiments; (5) Development of quality control standards and systems; (6) Analysis of survey data comparing "fast-food" units; (7) Comparative analysis of mail and telephone surveys to measure brand awareness and loyalty; (8) Design and analysis of questionnaire evaluating management training programs.
- 1974-1978 Boston Academic Consortium, Boston. Worked on: (1) Evaluation of leadership in the Army as perceived by the enlisted men (U.S. Army Research Institute for Behavioral and Social Sciences contract), 1974-1975; (2) Comparison of Army and Civilian crime. (U.S. Army Research Institute for Behavioral and Social Sciences contract); 1975-1976; (3) Investigation of adaptation of enlisted men to army life, 1976.

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1976-1980	<u>RDP</u> , Waltham, Mass. RDP was a research corporation involved in contract work with the Air Force at Hanscom Field. Worked on a number of data analysis projects which included the following - data editing to remove outliers, goodness-of-fit procedures to test and determine appropriate statistical distribution of data, and time series modeling.
1971-1975	<u>Diabetes and Arthritis Field Research Unit</u> , Boston. Worked on: (1) Modeling of both glucose and insulin disappearance during the Intravenous Glucose Tolerance test; (2) Longitudinal studies in incidence and prevalence of diabetes in Oxford, a community outside Boston; (3) Joint author of a critique of University Group Diabetes Project;
1969-	<u>Harvard Dental School</u> . Worked on study of appropriateness of analysis of variance techniques on dental clinical trial data. (NIH grant directed by Dr. R. Glass).
1968-1970	<u>Rockefeller Foundation</u> funded study on Bilharziasis carried out on St.Lucia, W.I. Worked on estimation of growth parameters of snails that transport Bilharziasis parasite.
1974-1975	<u>Vent-O-Matic</u> , Quincy. Aided in design of test plan to evaluate capabilities of Incinerators. (Navy contract).

PUBLICATIONS

Books/Monographs (Selected)

Applied Biostatistics, New York, NY., Thompson, 2006

Factor Analysis: An Applied Approach (with E.E. Cureton), Hillsdale, N.J., Erlbaum Publishers, 1983.

Mathematical Modeling: Applications in Emergency Health Services (co-editor with L. Shuman and H. Wolfe), New York, N.Y., Haworth Press, 1984.

Goodness-of-Fit Techniques (co-editor with M. Stephens of Simon Fraser University, Burnaby, Canada). New York, Marcel Dekker, Inc., 1986.

Symposium on Longitudinal Data Analysis, (co-editor with N. Lange, L.M. Ryan and M.R. Selwyn), *Statistics in Medicine* (1992), **11**.

Practical Engineering Statistics (with D. Schiff), New York, John Wiley & Sons, 1996.

Tutorials in Biostatistics (editor of 2 volumes), New York, John Wiley & Sons, 2004.

Introductory Applied Biostatistics (with L. M. Sullivan and A. Beiser), Belmont CA. Thompson Brooks/Cole, 2006.

Articles

Estimation of Percentiles of Continuous Populations, Thesis, Harvard University, 1968.

1970

Linear Estimation of the Normal Distribution Standard Deviation, *The American Statistician* (June,

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1970), 24(3), 14-15.

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Simple Compact Portable Test of Normality: Geary's Test Revisited, *Psychological Bulletin* (1970), 74, 138-140.

Transformation to Normality of the Null Distribution of g_1 , *Biometrika* (1970), 57, 679-681.

1971

Linear Estimation of the Weibull Parameters, *Technometrics* (1971), 13, 171-182.

An addendum to "Linear Estimation of Weibull Parameters," *Technometrics* (1971), 13, 428-429.

An Omnibus Test of Normality for Moderate and Large Size Samples, *Biometrika* (1971), 58, 341-348.

A Normal Approximation for Testing the Equality of Two Independent Chi-square Variables, (with B. Rosman), *Psychometrika* (1971), 36, 251-252.

Simulation Probability Points for b_2 for Small Samples, (with G. Tietjen), *Biometrika* (1971), 58, 669-672.

A Second Look at the Analysis of Variance of Dichotomous Data, *The Journal of Educational Measurement* (1971), 8, 327-333.

1972

The Appropriateness of Analysis of Variance to the Statistical Analysis of Dental Clinical Trials (with Glass, Alman and Fleisch), *Archives of Oral Biology* (1972), 17, 633-643.

Relation Between the Chi-squared and ANOVA Tests for Testing the Equality of K Independent Dichotomous Populations, *The American Statistician* (June, 1972), 26(3), 30-32.

Small Sample Probability Points for the D Test of Normality, *Biometrika* (1972), 59, 219-221.

Test of Normality Against Skewed Alternatives, (with E.E. Cureton), *Psychological Bulletin* (1972), 78, 262-265.

Critique of the UGDP Mortality Analysis, (with J Sullivan and C Mahan), In *2nd International Symposium of Early Diabetes*, Curacus (1972).

1973

Studying an Expert, in *Statistics by Example* (ed. by Mosteller, et.al.), Addison-Wesley, Reading (1973), in *Detecting Patterns* volume, 75-86.

How Much Does a 40-Pound Box of Bananas Weigh?, in *Statistics by Example* (ed. by Mosteller, et al), Addison-Wesley, Reading (1973), in *Detecting Patterns* volume, 29-32.

A Class of Simple Linear Estimators of the Standard Deviation of the Normal Distribution, (with E.E. Cureton), *Journal of the American Statistical Association* (1973), 68, 207-210.

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On the Evaluation of the Kolmogorov Statistic, (with G.E. Noether), *American Statistician* (March, 1973), 27 (2), 81-82.

Approaches to the Null Distribution of (with G. Tietjen), *Biometrika* (1973), 60, 169-173.

Power Comparison of W' and D Tests of Normality for $n=100$, *Communications in Statistics* (1973), 1, 545-551.

Tests for Departure from Normality, Empirical Results for the Distribution of b_2 and , (with E.S. Pearson), *Biometrika* (1973), 60, 613-622.

The 27th Percent Rule Revisited (with E.E. Cureton), *Journal of Educational and Psychological Measurement* (1973), 35, 47-50.

1974

Glucose Disposal Rates and the Glucose Challenge in Pregnant Women (with O'Sullivan, Mahan and Charles), *Journal of Clinical Endocrinology and Metabolism* (1974), 39, 1067-1071.

The Power of Geary's Test of Normality, (with B. Rosman), *Biometrika* (1974), 61, 181-184.

1975

Social Indicators: A Statistician's View, *Journal of Social Indicators Research* (1975), 1, 459-484.

Asymptotically Best Linear Unbiased Estimation of the Rayleigh Parameters for Complete and Tail Censored Samples (with A.F.S. Lee), *I.E.E.E. Journal of Reliability* (1975), 156-157

Decisive Factors in the Tolbutamide Controversy (with J. O'Sullivan), *Journal of the American Medical Association* (1975), 232, 825-829.

A Statistical Analysis of the Impact of the Energy Shortage on Air Quality Levels (with R. Siegel, P. Guldberg and J. Gipson), *Proceedings of Probability and Statistics in Atmospheric Sciences*, American Meteorological Society (1975).

1976

Linear Estimation of the Logistic Parameters for Complete or Tail Censored Samples, (with A.F.S. Lee), *Journal of the American Statistical Association* (1976), 71, 462-464.

Levels of Significance of Some Two Sample Tests when Observations are from Compound Normal Distributions, (with A.F.S. Lee), *Communications in Statistics* (1976), 5, 325-342.

Application of Path Analysis to Delineate the Secondary Growth Effects of Major Land Use Projects, (with T. McCurdy, F. Benesh and P. Guldberg), *Proceedings of Environmental Protection Agency Conference on Modelling* (1976).

A Laboratory Study of the Turbidity Generation Potential of Clay Mixtures (with D. Cogley and B. Wechsler), *Proceedings of the Specialty Conference on Dredging and its Environmental Effects*, American Society of Civil Engineers (1976).

1977

Enlisted Men's Perceptions of Leader Attributes and Satisfaction with Military Life, (with P.R. Bleda and G. Gitter), *Journal of Applied Psychology* (1977), 62 (1), 43-49.

Robustness of Location Estimators Under Changes of Population Kurtosis, (with A.F.S. Lee), *Journal of American Statistical Association* (1977), 72, 393-396.

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Key multiplicity issues in clinical drug development. Dmitrienko A, D'Agostino RB Sr, Huque MF. *Stat Med*. 2013 Mar 30;32(7):1079-111. doi: 10.1002/sim.5642.

Patterns of weight change and progression to overweight and obesity differ in men and women: implications for research and interventions. Kimokoti RW, Newby P, Gona P, Zhu L, McKeon-O'Malley C, Pablo Guzman J, D'Agostino RB, Millen BE. *Public Health Nutr*. 2013 Aug;16(8):1463-75. doi: 10.1017/S1368980012003801.

Extension of adaptive alpha allocation methods for strong control of the family-wise error rate. Li H, Sankoh AJ, D'Agostino RB Sr. *Stat Med*. 2013 Jan 30;32(2):181-95. doi: 10.1002/sim.5485.

Book Reviews

Applied Factor Analysis in the Natural Sciences, Reymert, R.B., and Joreskog, K.G., Cambridge, U.K.: Cambridge University Press, 1993, reviewed by Ralph B. D'Agostino, Boston University in JASA, Sept. 1994, Vol. 89, #427

Cluster Analysis (3rd ed.), Everitt, B., New York: Halsted Press (John Wiley), 1993, vii, reviewed by Ralph B. D'Agostino, Boston University in JASA, March 1994, Vol. 89, #425

Practical Handbook of Sample Size Guidelines for Clinical Trials: IBM Compatible Version, Shuster, J.J., Boca Raton, FL: CRC Press, 1993, reviewed by Ralph B. D'Agostino, Boston University in Journal of the American Statistical Association, December 1993, Vol. 88, #424, 1473-1474.

Methology of Clinical Trials (2nd ed.), Spiert, A., Dupin-Spiert, T., Simon, P., Basel, Switzerland: Karger, 1994, reviewed by Ralph B. D'Agostino, Boston University in JASA, March, 1995, Vol. 90, #425, 390-391.

Planning Pharmaceutical Clinical Trials: Basic Statistical Principles, Wooding, W.M., New York: John Wiley, 1994, in JASA, March 1995, Vol. 90, #390-391.

Statistical Methods for Medical Investigations (2nd ed.), Everitt, B.S.. New York: J. Wiley and Sons, 1994. in JASA, June 1996, Vol. 91, #910.

Elsevier's Dictionary of Biometry, Rasch, D., Tiku, M.L., Sumpf, D. (Eds.), Amsterdam: Elsevier, 1994. in JASA, June 1996, Vol. 91, #910-912.

Editor Of Emergency Health Services Review

EMS Communications: Utilizing the New Hardware and Systems Technology, (Guest Editor: Russell C. Kulp), Volume I, Issue 2, Winter, 1981.

Cardiopulmonary Resuscitation: An Evaluation of Performance and Potential (Guest Editors: Mickey S. Eisenberg and Lawrence Bergner), Volume I, Issue 3, Spring, 1982.

Emergency Medical Technician and Paramedic Training: Perspectives on Trends (Guest Editors: Lenwood Jacobs and Barbara Bennett), Volume II, Issue 1, Spring, 1983.

Mathematical Modeling: Applications in Emergency Health Services, (Guest Editors: Ralph B. D'Agostino, Larry Shuman and Harvey Wolfe), Volume II, Issues 2/3, Spring, 1984.

The Psychiatric Emergency: Its Recognition and Management (Guest Editor: Eugene S. O'Neill), volume III, Issue 1, Fall, 1985.

Handbook of Emergency Psychiatry for Clinical Administrators (Guest Editors: Gail Barton and Rohn Friedman), Volume III, Issues 2/3, Winter 1985/Spring 1986.

Federal Register

Worked with Federal Food and Drug Administration's Panel reviewing over-the-counter Miscellaneous Internal Drugs in preparing the following monographs for publication in the *Federal Register* (1975-1983):

Digest Aids Drug Products

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Weight control Drug Products
Pancreatic Insufficiency Drug Products
Antidotes for Treatment of Acute Toxic Ingestion Drug Products
Smoking Deterrent Drug Products
Deodorants for Internal Use Drug Products
Stomach Acidifier Drug Products
Aphrodisiac Drug Products
Sweet Spirit of Titre
Anthelmintic Drug Products
Emetic Drug Products
Hypophosphatemia and Hyperphosphatemia Drug Products
Cholecystoketic Drug Products
Insect Repellant Products
Orally Administered Fever Blister Remedies

Worked with above Panel to produce protocols or guidelines for protocols for evaluating effectiveness of following over-the-counter drugs for publication in the *Federal Register* (1975-1983):

Immediate Post Prandial Upper Abdominal Distress Drugs
Intestinal Distress Drugs
Weight Reducing Aid Drugs
Smoking Deterrent Drugs
Deodorants for Internal Use Drugs
Fever Blister Drugs
Overindulgence in Food and Drink, Drugs for Relief of Symptoms Resulting From Pain
Premenstrual Pain and Tension Drugs

Worked with Federal Food and Drug Administration's Over-the-Counter-Drug Division in preparing guidelines for testing Sun Screen products. Guidelines to be published in the *Federal Register* (1989).

Letters To The Editor

Note on "Regression Thru the Origin", *American Statistician* (December, 1971), 25 (5), 59.

Note on the Kolmogorov Statistic on Grouped Data, (with G.E. Noether), *American Statistician*, (October, 1973), 27 (4), 192.

SELECTED REPORTS

Published

Qualify of Army Life: The Effects of Military Leadership, (with A.G. Gitter and P.S. Graffman), Report DAWC 19-74-C-0020, prepared for U.S. Army Research Institute for Behavioral and Social Sciences (1975).

Impact of Energy Shortage on Ambient Sulfur Dioxide and Particulate Levels in Metropolitan Boston AQCR (with R. Siegel, P. Guldberg and K. Wiltsee), U.S. Environmental Protection Agency (EPA-450/3075-068) (1975).

A Study to Evaluate the Effect of Performing Various Energy Saving Procedures on Residential Oil Burner Installations in the New England Area and to Gather Information on the Steady State

Ralph B. D'Agostino RESUME February 10, 2013
and Dynamical Performance of These Installations, (with L. Katzman), National Bureau of Standards, U.S. Department of Commerce (1975).

Growth Effects of Major Lane Use Projects: Volume I-Specification and Casual Analysis of Model, (with F. Benesh and P.H. Guldberg), U.S. Environmental Protection Agency (EPA-450/3-76-012-a), (1976).

Growth Effects of Major Land Use Projects: Volume III-Summary Report, (with F. Benesh and P. Guldberg), U.S. Environmental Protection Agency (1976).

Trends in Military Crime, (with G. Gitter and N. Teebagy), prepared for U.S. Army Research Institute for Behavioral and Social Sciences (1976).

Comparative Indicators of Civilian and Military Crime 1969-1974 , (with G. Gitter and N. Teebagy), prepared for U.S. Army Research Institute for Behavioral and Social Sciences (1976).

Adaptation to the Army of the American Soldier; Education, Aptitude, Race and Enlistment Motivation, (with G. Gitter and N. Teebagy), prepared for U.S. Army Research Institute for Behavioral and Social Sciences (1976).

Leadership and Performance as Predictions of Organizational Adjustment, (with G. Gitter and N. Teebagy), prepared for U.S. Army Research Institute for Behavioral and Social Sciences (1976).

Institutional Adaptation; Marital Status and Mode of Training, (with G. Gitter and N. Teebagy), prepared for U.S. Army Research Institute for Behavioral and Social Sciences (1976).

Growth Effects of Major Land Use Projects (Wastewater Facilities): Volume I-Model Specification and Causal Analysis, (with P.H. Guldberg and R.D. Cunningham), U.S. Environmental Protection Agency (EPA Contract No. 68-02-2594), (1978).

Growth Effects of Major Land Use Projects (Wastewater Facilities): Volume II-Summary, Predictive Equations and Worksheets (with P.H. Guldberg), U.S. Environmental Protection Agency (EPT Contract No. 68-02-2594), (1978).

Study of Area Source Hydrocarbon Emissions, (with P. Morgenstern and M.C. Shah), Illinois Environmental Protection Agency, (1978).

Unpublished

Appendix to "Critique of the UGDP Mortality Analyses", 1971.

Interpretation of the Sample Ratio of Assessment of Fair Cash Value and Its Standard Error, 1972.

Large Sample formulas for the Power and Sample Size for Correlated Proportions, 1972, B.U. Mathematics Department Research Report.

Tables for the D Test of Normality, April, 1973, B.U. Mathematics Department Research Report.

On the Null Distribution of b_2 for $20 \leq n \leq 200$, (with E.S. Pearson), 1973, B.U. Mathematics Department Research Report.

Comparison of Logistic Regression and Discriminant analysis as Emergency Room Decision Models for the Diagnosis of Acute Coronary Disease, (with M.W. Pozen, J.B. Mitchell, et al.),

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1978, B.U. Mathematics Department Research Report.

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Statistical Review of the Hypertensive Literature (with P. Gertman, A. Sevin and J. Hares), 1974,
Boston University Mathematics Department Research Report.

Minicomputer and Data Analysis in Support of the AFCL Magnetometer Network (with A. Lee and
M.A. Leekley), Air Force Geophysics Laboratory, 1984.

SELECTED TALKS

Social Indicators, A Statistician's View, at American Psychological Association Annual meeting,
Washington, DC, September, 1971, at Urban Institute, Boston University, October 1971.

Tests of Normality, at meeting of Boston Chapter of the American Statistical Association, April
1973, at University of Connecticut (Statistics Department's Colloquium), April, 1973.

UGDP Controversy: A Clinical and Statistical Evaluation, (with J. O'Sullivan), at B.U.
Endocrinology Seminar, May, 1975.

A Statistical Analysis of the Impact of the Energy Shortage on air Quality Levels, (with R. Siegel
and P. Guldberg), at 4th conference on Probability and Statistics in Atmospheric Sciences,
November, 1975, Tallahassee, Florida.

A Laboratory Study of the Turbidity Generating Potential of Clay Mixture, (with D. Cogley and B.
Wechsler), at Specialty Conference on Dredging and its Environmental Effects, November, 1975.

*Application of Path Analysis to Delineate the Secondary Growth Effects of Major Land Use
Projects*, (with T. McCurdy, F. Benesh and P. Guldberg), at EPA Conference on Modelling, March,
1976.

Trials, Tribulations and Joys of Statistical Consulting, at University of Maine, Mathematics
Department, March, 1976.

Statistical Methods Applied to Air Quality and Other Environmental Problems, at University of
Maine, Mathematics Department, March, 1976, at Bowdoin College, Maine, March, 1977.

Quality of Life and Leadership in a Military Context, (with P. Bleda and G. Gitter), at American
Psychological Association Annual meeting, September, 1976, Washington, D.C.

*Relative Effectiveness of a Multiple Discriminant Model Versus Emergency Room Physicians in
Diagnosing Acute Myocardial Ischemia*, (with M. Pozen, J. Guglielmino, N. Teebagy, L. Bielawski,
W. Hood), at American Federation of Clinical Research Meeting, May 1, 1977, Washington, D.C.

*Comparison of Logistic Regression and Discriminant Analysis as Emergency Room Decision
Model for the Diagnosis of Acute Coronary Disease*, (with M. Pozen, N. Teebagy, et. al.) at
American Statistical Association Annual Meeting, August, 1977, Chicago, Illinois.

A Sequential Diagnostic Procedure Incorporating the Logistic Regression, (with N. Teebagy, M.
Pozen, et al.), at American Statistical Association Annual Meeting, August, 1977, Chicago, Illinois.

Implications of Alternative Sampling Strategies for Emergency Medical Service Evaluation, (with J.
Mitchell, M. Pozen, et al.), at American Federation for Clinical Research Meeting, April 28, 1978,
San Francisco, California.

The Utility of a Predictive Model for Ischemic Heart Disease in Changing Hospital Admitting Practices, (with M. Pozen and J. Mitchell), at American Federation for Clinical Research Meeting, April 28, 1978, San Francisco, California.

Acute Cardiovascular Conditions Recognition-Emergency Medical Technicians Versus Paramedics (with J. Mitchell, M. Pozen, et al.), at American Public Health Association Meeting, October 1978, Los Angeles, California.

Implications of Paramedics Diagnostic and Therapeutic Accuracy, (with M. Pozen), at American Federation for Clinical Research, May 1979.

The Utility of Hemodynamic Parameters for Assessing Status and Course of Patients with Trauma, (with M. Pozen and D. Lerner), at American Public Health Association (APHA) Meeting, November 1979.

Impact of Paramedic Programs in Selective Cardiac Patient Groups, (with M. W. Pozen and P.A. Sytkowski) APHA Meeting, October, 1980.

A Method for Assessing the Impact of Emergency Medical Systems in Rural Areas, (with M.W. Pozen), APHA Meeting, October, 1980.

Robustness of Statistical Techniques, Framingham State College, November, 1980.

The Statistician's Role in Modern Research, Western New England College, March, 1981, and Regis College, April, 1981.

Robustness of Parametric Procedures, (with S. Meeks and T. Heeren), Biometrics Meeting, San Antonio, Texas, March, 1982.

Family-Centered Cardiac Rehabilitation: A Model for Returning Patients to Work, (with D. Lerner, A. Burgess, K. Chobanian and W. Hood), National Council on Family Relations Meeting, Washington, D.C., October, 1982.

Predicting Ischemic Heart Disease in the Emergency Room, (with P. Sytkowski, M. Pozen, et al.), APHA Meeting, Montreal, November, 1982.

Combining Results of Independent Clinical Trials, ASA Meeting, Nashville, Tenn., March, 1983.

Statistical Analysis of Data on Sexual Murderers/Serial Murderers, Federal Bureau of Investigation (FBI) Academy, November 8, 1983 and January 5, 1984.

Review of Statistical Analysis Procedures Appropriate to Longitudinal Studies Such As the Framingham Heart Study (with L.A. Cupples, R. Abbott and K. Anderson), APHA Meeting, Washington, D.C., November, 1986.

Comparison of the Impacts of Risk Factors on Cardiovascular Disease (with L. A. Cupples, W. Kannel, W. Castelli and P. Wolf), APHA Meeting, Washington, D.C., November, 1986.

Mechanism of the Decline in Cardiovascular Disease Mortality: The Framingham Study (with P.A. Sytkowski, W.B. Kannel and P.A. Wolf), Society for Epidemiologic Research, Amherst, MA 1987.

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Nutritional Predictors of Coronary Heart Disease Over 20 Years: The Framingham Study (with B.M. Posner, J.L. Cobb, A.J. Belanger and J. Stokes), American Heart Association, Washington, D.C., 1988.

Influence of Education of Cognitive Decline with Advancing Age: The Framingham Study (with D.L. Backman, R.T. Linn, P.A. Wolf, J.E. Knoefel and L.R. White) AAN, 1988.

Mild Hypertension and Hypercholesterolemia in Young People: The Framingham Offspring Study (with M.E. Costa, A.J. Belanger, W.B. Kannel and A.V. Chobanian), American Heart Association, Washington, D.C., 1988.

Prevalence Rates of Risk Factors for Coronary Heart Disease in Hypertensives: The Framingham Study (with M.E. Costa, A.J. Belanger, W.B. Kannel and A.V. Chobanian), American Heart Association, Washington, D.C. 1988.

New Insights on Cholesterol-Lipoprotein Profiles: The Framingham Study (with W.B. Kannel and A.J. Belanger), American Heart Association, Washington, D.C., 1988.

Epidemiologic Background and Design: The Framingham Study. American Statistical Association, New Orleans, August, 1988.

Designing and Analyzing a Study to Quantify Nonbiological Factors in Clinical Decision Making (with J.B. McKinlay and D. Potter), American Public Health Association, Boston, 1988.

Methods for Evaluating the Effects of Smoking: The Framingham Study (with A.J. Belanger), American Public Health Association, Boston, 1988.

Health Effects of Smoking Cessation, Methodological Considerations and Analysis Results (with A.J. Belanger), American Public Health Association, Boston, 1988.

Design and Analysis of Caries Studies Evaluating the Effectiveness of High Dose Fluoride Dentrifrices (with J.E. Alman and L. Cancro), American Public Health Association, Boston, 1988.

Alcohol Consumption as a Risk Factor for Stroke: The Framingham Study (with P.A. Wolf), The American Neurological Association, Philadelphia, October, 1988.

How Often Do Emergency Room Physicians Misread ST Segments, and How Does it Affect Patient Care? - A Multicenter Study (with R.L. Jayes, G.C. Larsen, J.R. Beshansky and H.P. Selker), Society of General Internal Medicine, Washington, D.C., April 1989.

Can Missed Diagnosis of Acute Myocardial Infarction (AMI) in the Emergency Room (ER) Be Reduced? (with B.M. McCarthy and H.P. Selker), Society of General Internal Medicine, Washington, April, 1989.

Testing the Performance of Logistic Regression Predictive Instruments: Different Measures for Different Applications (with H.P. Selker and J. Griffith), Society of General Internal Medicine, Washington, April, 1989.

Cholesterol: Phospholized Ratio Revised: The Framingham Study (with J. Stokes and W.B. Kannel), 2nd International Conference on Preventive Cardiology, Washington, June, 1989.

Robustness of Parametric Procedures on Scaled Ordered Data for Small Samples, American Statistical Association, Washington, D.C., August, 1989.

Moving Towards Morbidity Based Health Risk Appraisal, Society of Prospective Medicine, Indianapolis, Indiana, October, 1989.

Effects of Patient, Physician and Practice Setting Characteristics on Clinical Decision Making: Results of a Factorial Experiment (with J.B. McKinlay and D.A. Potter), Society for Medical Decision Making, Minneapolis, MN, October, 1989.

Design and Analysis Consideration to Evaluate Medical Decision Making, American Public Health Association, Chicago, October, 1989.

The Future of Graduate Education in Statistics, 150th Anniversary of American Statistical Association, Boston, December, 1989.

Use of Logistic Regression Function in Medical Research, Society of General Internal Medicine, April, 1990

Relation of Pooled Logistic Regression to Cox Time Dependent Covariance Analysis, Baltimore Longitudinal Study of Aging. Baltimore MD, March 1990, University of Massachusetts, Amherst, MA, April 25, 1990, Statistics and Economic Department, University of Switzerland at Geneva, May, 1993.

Use of Chi-Square Test on 2 x 2 Contingency Tables, American Statistical Association Annual Meeting, August, 1990.

Health Risk Appraisal Functions and the Framingham Heart Study, American Public Health Association Annual Meeting, November 1990, Johns Hopkins Biostatistics Department, October, 1993, Simon Fraser University, April, 1994.

Considerations for Design and Analysis of Clinical Trials for Treatment of Gingivitis and Periodontitis. American Dental Association, Chicago, May, 1991.

Relation of Low Diastolic Blood Pressure to Coronary Heart Disease Deaths. Cardiovascular Epidemiology Meeting, Florida, March, 1991.

Longitudinal Data Analysis Symposium on Longitudinal Data Analysis. Symposium on Longitudinal Data Analysis, Florida, June, 1991.

Implication of Diagnosis of Dementia/Alzheimer's Disease on Prevalence Studies and Clinical Trials. Conference on Applied Statistics (ASA-ASQC), Atlantic City, NJ, December, 1991, American Statistical Association Annual meeting, August, 1991, Boston.

Some Recent Issues in Dental Caries (Cavities) Research. American Statistical Association Winter Meetings, January, 1995.

Invited Speaker Klimt Lecture, Johns Hopkins, 1999.

Invited Speaker Cardiovascular Conference, San Juan, Puerto Rico, 10/99

Invited Speaker Cardiovascular/Statistics Group, Gainesville, FL 5/00

Invited Speaker International Goodness-Of-Fit meeting, Paris May, 2000

Invited Speaker 11th International Pharmaceutical Conf Berlin June, 2000

Invited Speaker Quality of Life Conference Harvard June, 2000

Invited Speaker Drug Information association, March 2000 Control Groups in Clinical Trials

Invited Speaker Drug Information Association Annual Meeting June 2000 Alpha Spending in Clinical

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Trials

Invited Speaker American Statistical Association Annual Meeting 8/2000 Validation of Framingham Risk Prediction functions

Joint author on 5 invited papers presented at the American Heart Association meeting in Dallas, Texas, November, 1999.

Joint author on 3 papers presented at the Cardiovascular Epidemiology meetings in San Diego, CA, March 2000.

Lecturer in Postgraduate Course sponsored by Drug Development Association, February, 2000

DELIVER AT LEAST 5 TO 10 PRESENTATIONS A YEAR AT PROFESSIONAL MEETINGS (Joint Statistics Meeting, Drug Information Association, FDA-Industry, American Heart Association, American College of Cardiology)

MAJOR CONFERENCES (Selected)

June 1983 NIH Consensus Development Conference on Liver Transplantation; Washington, D.C.

September 1984 NIH Consensus Development Conference on Fresh Frozen Plasma; Washington, D.C.

May 1983 Conference on Clinical Caries Trials; American Dental Association, Chicago, Ill.

November 1983 Conference on Pornography, Sexual Exploitation of Children and Violent Crime; FBI Academy, Quantico, Virginia.

January 1984 Conference on Sexual Murderers; FBI Academy, Quantico, Virginia.

January 1986 Severity Indexing for Improving Health Case Management, New Orleans, Louisiana.

September 1987 NIH Consensus Development Conference on Geriatric Assessment Methods, Washington, D.C.

August, 1988 Goodness-of-Fit Techniques (with M.A. Stephens). Short Course for American Statistical Association, New Orleans, LA. (Also gave course as mini-course for Boston Chapter of ASA in December 1988).

September, 1990 Intra Oral Techniques for Evaluating Efficacy: American Dental Association, Chicago, Illinois.

May 1991 Guidelines For Testing Products for Treatment of Gingivitis and Periodontitis: American Dental Association, Chicago, Illinois.

June 1991 Symposium on Longitudinal Data Analysis: American Statistical Association, Fort Lauderdale, Florida.

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November 1998 Drug Information Association on the Use of Botanicals as Drugs, Washington, DC, November, 1997

March 2000, Drug Information Association, Use of Control Groups in Clinical Trials, Savannah, Georgia

ATTEND MAJOR MEETINGS EVERY YEAR

MEMBERSHIP PROFESSIONAL SOCIETIES

1967-	Institute of Mathematical Statistics (IMS)
1967-	American Statistical Association (ASA)
1974-	American Society for Quality control (ASQC)
1979-	American Public Health Association (APHA)
1980-	American Association for the Advancement of Science (AAAS)
1983-	Biometrics Society

PROFESSIONAL ACTIVITIES (Selected)

1971-72	President, Boston Chapter American Statistical Association
1973-75	Member, National Council of American Statistical Association
1976	Chairman, Goodness-of-Fit session of American Statistical Association Annual Meeting, Boston
1975-77, 1980-1990	Member Visiting Lecturer Series of Statistical Societies
1980-	Member, Task force on Design and Analysis on Dental and Oral Research
1982-	Organizer and Chairman, Mathematical Models in the Diagnoses and Treatment of Cardiac Patients session of the American Public Health Association Annual Meeting, Montreal.
1981-88	Reviewer for National Research Council Research Associateship Program
1983-85	Member, Governing Council of the American Public Health Association.
1985	Organizer and Chairman, Recent Analysis of the Framingham Heart Study Data session of the American Public Health Association Annual Meeting, Washington, D.C.
1988	Organizer, Effects of Smoking and Health Benefits of Smoking Cessation session, American Public Health Association Annual Meeting, Boston, MA
1989	Organizer, Robustness of Parametric Procedures on Scaled Ordinal Data for Small Sample Session of American Statistical Association Annual Meeting, Boston, MA
1989	Organizer, Effects of Patient and Physician Characteristics on Medical Decision Making, session of American Public Health Association Annual Meeting, Chicago, Ill.

- 1990 Organizer, Health Risk Appraisal Functions: The Framingham Study, Session of American Public Health Association Annual Meeting, New York, New York
- 1991 Member, Planning Committee for Symposium on Longitudinal Data Analysis, Sponsored by American Statistical Association. Held in Fort Lauderdale, Florida, June 1991.
- 1991- Regional Committee, Biometrics Society
- 1990-1994 Member, Study Section, Agency for Health Care Policy and Research, Technology Study Section.
- 1994 Organizer, Session on Effectiveness Research at Annual Meeting of the American Statistical Association, Toronto, August,
- 1994-1995 Chair-Elect and Chair, Section on Health Policy Statistics, American Statistical Association
- 1999- Chair, Noether Awards Committee, American Statistical Association
- 2000- Chair-Elect, Section on Epidemiology, American Statistical Association

JOURNAL EDITORIAL ACTIVITIES

- 1998- Editor, *Statistics in Medicine*
 2007- Statistical Consultant, *New England Journal of Medicine*
 1996- Editor, *Tutorials in Biostatistics for Statistics in Medicine*
 2000- Editorial Board, *Health Services and Outcomes Research Methodology*
 1997- Associate Editor, *American Journal of Epidemiology*
 1999- Associate Editor, *Current Therapeutic Research*
 1992-96 Associate Editor, *Journal of the American Statistical Association*
 1988-98 Editorial Board, *Biostatistics*
 1981-86 Editor: *Emergency Health Services Review*.
 1980-91 Editorial Board: *Statistics in Medicine*
 1972-76 Associate Editor: *The American Statistician*.

JOURNAL AND PROPOSAL REVIEWS

- Journal of the American Medical Association
 New England Journal of Medicine
 American Journal of Epidemiology
 Journal of the American Statistical Association
 Biometrics
 Technometrics
 National Academy of Sciences (National Research Council)
 Annals of Statistics
 National Science Foundation
 National Center for Health Services Research
 Agency for Health Care Policy and Research
 IEEE, Reliability
 Communications In Statistics
 Statistics in Medicine

MEMBERSHIP/ACTIVITIES-BOSTON UNIVERSITY (Selected)



1974-76	College of Liberal Arts-Medical School Joint Advisory Selection Committee (b) (6)
1975-78	College of Liberal Arts-Medical School Joint Advisory Selection
1977-85	University Council's Research Activities Committee (Chairman 1982-84)
1976-78	Research Advisory Committee (Chairman)
1976-78	College of Liberal Arts/Graduate School Executive Committee
1976-78	Graduate School Academic Standards Committee 1976-78 Martin Luther King Fellowship Committee (Chairman)
1979-81	University Appointments, Promotion and Tenure Committee (Chairman 1979-80, 1980-81)
1978-85	Member, Faculty Council
1981-82	Secretary, Faculty Council
1982-83	Vice-Chairman, Faculty Council
1983-84	Chairman, Faculty Council
1980	Member, Search Committee for Dean of School of Management
1981-82	Chairman, Committee to Establish Division of Engineering and Applied Sciences in the Graduate School
1982-84	Member, Executive Committee of Division of Engineering and Applied Sciences
1984-86	Chairman, Planning Committee of University Council
1984	Search Committee for Chairman of Psychology Department (Chairman)

(b) (6)

1987, 1990	Metcalf Teaching Awards Committee
1989-90	Search Committee for Dean of College of Liberal Arts
1990	Search Committee for Chairman of Psychology Department
1994	Chair, Search Committee for Assistant Professor in Statistics, Mathematics Department

(b) (6)

1998-2012	Member various committee on Bioinformatics, Mathematical/Numerical Biology at Boston University
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